

WHAT IS CLAIMED IS:

1. A data backup apparatus, comprising:
a dynamic RAM for storing data;
detection means for detecting an OFF command of a main power supply; and

control means for changing said dynamic RAM to a self-refresh mode when said detection means detects the OFF command of the main power supply, and feeding power from a backup power supply to said dynamic RAM.

2. The data backup apparatus according to claim 1, wherein said control means makes the dynamic RAM supplied with power from the main power supply during the period from the detection of the OFF command of the main power supply to completion of the changing to the self-refresh mode.

3. The data backup apparatus according to claim 1, wherein said control means designates one memory area that receives power from the backup power supply among a plurality of memory areas constituting said dynamic RAM, and feeds power only to the thus designated memory area.

4. The data backup apparatus according to claim 3, wherein said control means indicates information regarding the memory area that receives power from the backup power supply.

5. The data backup apparatus according to claim 1, wherein said control means stops feeding of power from the main power supply to a predetermined equipment, when an output voltage of the main power supply is reduced.

6. The data backup apparatus according to claim 1, wherein if an SDRAM is used as the dynamic RAM, said control means and said SDRAM are kept separated from each other until initial setting of said control means is completed.

7. A step-up/down power supply comprising:

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a step-up DC/DC converter for outputting a predetermined voltage by stepping up a voltage applied from a main power supply when the applied voltage drops below a reference voltage; and

a step-down DC/DC converter connected in series with said step-up DC/DC converter, and adapted to output a predetermined voltage by stepping down the voltage applied from the main power supply when the applied voltage rises above the reference voltage.

8. A step-up/down power supply according to claim 7, characterized in that said step-up DC/DC converter captures a voltage signal from outputting means for outputting a predetermined voltage, and drives a switching device.

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